# **Intermediate Graphic Communications**

Levels: Grades 10-12

Units of Credit: 0.5 CIP Code: 10.0302

Prerequisite: Introduction to Graphic Communications

#### **COURSE DESCRIPTION**

## CORE STANDARDS, OBJECTIVES, AND INDICATORS

STANDARD 100302-01	Students will be able to understand the introduction to the graphics/printing industry.
OBJECTIVES 100302-0101 100302-0102	Define the role of graphics in the free enterprise system. Identify print markets and types of print businesses.
100302-0103	Identify and describe the major printing process and products produced by each.
100302-0104	List in order the technical production flow from idea to finished product.
100302-0105	Identify and describe basic printing equipment.
STANDARD 100302-02	The student will be able to understand and demonstrate safe practices.
OBJECTIVES 100302-0201 100302-0202 100302-0203 100302-0204 100302-0205	List safety rules involving flammable liquids. List the steps to be taken in case of injury in the lab. Identify location(s) of first aid kit(s). Identify location(s) of eye wash station(s). Identify where protective safety equipment is needed.

100302-0210	Demonstrate common sense when working with others.
STANDARD	The students will be able to understand and demonstrate

Follow proper safety procedures when operating equipment.

Read, comprehend and follow instructions on warning labels.

Follow approved shop dress code for safe operation.

## **OBJECTIVES**

100302-03

100302-0206

100302-0207

100302-0208

100302-0209

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100302-0301	Measure linear dimensions in inches.
100302-0302	Measure linear dimensions in fractions of inches.
100302-0303	Measure linear dimensions in millimeters.
100302-0304	Measure type in points.

Pass general lab safety test.

measurement systems.

STANDARD 100302-04	The student will be able to understand and demonstrate basic math skills.
OBJECTIVES 100302-0401 100302-0402 100302-0403 100302-0405 100302-0406 100302-0407 100302-0408 100302-0409 100302-0410 100302-0411 100302-0412 100302-0414 100302-0415 100302-0415 100302-0416 100302-0418 100302-0419 100302-0420	Solve addition of whole number problems. Solve addition of fraction problems. Solve addition of decimal problems. Solve subtraction of whole number problems. Solve subtraction of fraction problems. Solve subtraction of decimal problems. Solve multiplication of whole number problems. Solve multiplication of fraction problems. Solve multiplication of decimal problems. Solve division of whole number problems. Solve division of fraction problems. Solve division of decimal problems. Solve decimal-to-decimal conversion problems. Solve decimal-to-fraction conversion problems. Solve decimal-to-percent conversion problems. Solve basic linear measure problems. Solve basic paper cutting calculations. Solve inches to points conversion problems. Solve points to inches conversion problems. Solve cost calculating problems.
STANDARD 100302-05	Students will be able to understand and demonstrate design and layout.
OBJECTIVES 100302-0501 100302-0502 100302-0503 100302-0504 100302-0505 100302-0506 100302-0507 100302-0508 100302-0509 100302-0510	Identify the basic fundamentals of type. Identify appropriate uses of type. Identify the basic elements of design. Identify appropriate uses of the basic elements of design. Identify the basic principles of design. Identify appropriate uses of the basic principles of design. Identify the basic layout elements. Identify appropriate uses of the basic layout elements. Produce thumbnails, rough, and final layouts. Correctly use the basic fundamentals of type in a final layout.
STANDARD 100302-06	The student will be able to understand and demonstrate Digital Image Preparation.
OBJECTIVES 100302-0601 100302-0602	Identify various desktop publishing applications and uses. Demonstrate keyboard typing skills.

100302-0603 100302-0604 100302-0605 100302-0606 100302-0608 100302-0609 100302-0610 100302-0611 100302-0612 100302-0613 100302-0614 100302-0615	Design a page with appropriate margins, formatting, guides, trims and folds.  Flow copy from word processing program to page layout program.  Define the difference between raster and vector.  Identify various types of storage media.  Import an image into a page layout program.  Identify between different file formats and there uses.  Identify the difference between continuous tone and halftone.  Create a multi-page layout in a page layout program.  Create process and spot colors in a page layout program.  Create or edit a vector image in a drawing program.  Edit a raster image in a paint program.  Output color separations from a page layout program.  Output a proper bleed from a page layout program.
STANDARD 100302-07	The students will be able to understand and demonstrate image capture.
OBJECTIVES 100302-0701 100302-0702 100302-0703 100302-0704 100302-0705	Identify basic scanning hardware Identify basic digital camera hardware. Explain the difference between line art and continuous tone originals. Use a digital camera or a scanner to capture a digital image. Determine the appropriate DPI for scanning line art & continuous tone originals.
STANDARD 100302-08	The students will be able to understand and demonstrate digital file output.
OBJECTIVES 100302-0801 100302-0802 100302-0803 100302-0804 100302-0805	Define trapping. Explain the purpose of a folding dummy. Define imposition and signatures. Identify image and non-image areas on a offset printing plate. Produce an analog or digital plate for offset printing.
STANDARD 100302-09	The students will be able to understand and demonstrate press operations.
OBJECTIVES 100302-0901 100302-0902 100302-0903	Identify offset press parts and systems. Identify the cylinders of an offset press. Identify safety and operation procedures for printing on an offset press.

100302-0904 100302-0905	Perform setup for a print job. Produce a job using an offset press.
STANDARD 100302-10	The students will be able to understand and demonstrate binding and finishing techniques.
OBJECTIVES 100301-1001 100301-1002 100301-1003 100301-1005 100301-1006 100301-1007  100301-1008 100301-1009 100301-1010 100302-1011 100302-1012  100302-1014 100302-1015	Identify basic paper types, and weights. Identify grain direction of paper. Draw a master cutting diagram for making cuts. Identify operational and safety parts of the cutter. Make accurate paper cuts using a mechanized paper cutter. Define binding. Identify different binding methods (adhesive, perfect, case, saddle, etc). Identify padding equipment, tools, and materials. Correctly produce a pad of paper. Identify stapling and stitching equipment. Define finishing. Identify different finishing methods (perf, score, die cut, emboss). Identify punching/drilling equipment, tools, and materials. Explain the difference between cutting and trimming. Demonstrate basic paper jogging techniques.
.0000= .0.0	Demonstrate basic paper jogging techniques.
STANDARD 100302-11	The students will be able to understand and demonstrate screen printing techniques.
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STANDARD 100302-11 OBJECTIVES 100302-1101 100302-1102 100302-1103 100302-1104 100302-1105 100302-1106 100302-1107 100302-1108 100302-1109	The students will be able to understand and demonstrate screen printing techniques.  Identify screen printing tools and equipment. Identify squeegee characteristics. (durometer, shapes, etc.) Properly prepare a screen. Demonstrate proper screen printing techniques. Define screen printing mesh counts. Identify and compare direct and indirect stencils. Properly reclaim a screen. Identify screen printing stencil types and their uses. Identify screen printing inks and applications.

100302-1202	Demonstrate proper work habits.
100302-1203	Identify personal interests.
100302-1204	Work effectively as a team member.
100302-1205	Communicate effectively.

#### PROFESSIONAL DEVELOPMENT

The students will be able to understand and demonstrate STANDARD skills related to professional development. 100302-13

<b>OBJECTIVES</b>	
100302-1301	Complete a personal inventory.
100302-1302	Set and meet goals.
100302-1303	Be self-motivated.
100302-1304	Know how to make decisions.
100302-1305	Know how to manage time.
100302-1306	Organize personal belongings and lab equipment.
100302-1307	Learn to communicate verbally.
100302-1308	Write effective communications.
100302-1309	Establish a personal reading program.
100302-1310	Develop effective work skills and attitudes.
100302-1311*	Master a working knowledge of SkillsUSA.
	State the SkillsUSA motto.

- State the SkillsUSA creed.
- Learn the SkillsUSA colors.
- Describe the official SkillsUSA dress.
- Describe the procedure for becoming a SkillsUSA officer.

#### STANDARD The students will be able to understand and demonstrate 100301-14 skills related to leadership.

#### **OBJECTIVES**

100302-1401	Serve on a committee.
100302-1402	Prepare an agenda.
100302-1403	Assist in planning a meeting.
100302-1404	Review basic parliamentary procedure.
	■ Make a main motion.
100302-1405	Participate in a school project.
100302-1406	Attend a community meeting.
100302-1407	Practice effective speaking.
100302-1408	Present a three- to five-minute talk.
100302-1409	Implement a leadership project.
100302-1410*	Master a working knowledge of SkillsUSA.
	Describe the meaning of the SkillsUSA emblen

- m.
- State the SkillsUSA pledge.
- Describe the duties of a SkillsUSA officer.

STANDARD 100302-15	The students will be able to understand and demonstrate skills related to career planning.
<b>OBJECTIVES</b>	
100302-1501	Define your future occupation.
100302-1502	Survey employment opportunities.
100302-1503	Report on a trade journal article.
100302-1504	Explore opportunities for advanced training.
100302-1505	Conduct a worker interview.
100302-1506	Contact a professional association.
100302-1507	Explore entrepreneurship opportunities.
100302-1508	Give a talk about your career.
100302-1509	Review career goals.
STANDARD 100302-16	The students will be able to understand and demonstrate skills related to employment.
<b>OBJECTIVES</b>	
100302-1601	Develop a list of work standards to follow at school and on the
	bevelop a list of work startagras to follow at sortion and off the
	job.
100302-1602	•
100302-1602	job.
100302-1602 100302-1603	job.  Evaluate your personal ethics.  Evaluate your personal ethics against acceptable workplace
	<ul> <li>job.</li> <li>Evaluate your personal ethics.</li> <li>Evaluate your personal ethics against acceptable workplace ethics.</li> </ul>
100302-1603	<ul> <li>job.</li> <li>Evaluate your personal ethics.</li> <li>Evaluate your personal ethics against acceptable workplace ethics.</li> <li>Build a job search network.</li> </ul>
100302-1603 100302-1604 100302-1605 100302-1606	<ul> <li>job.</li> <li>Evaluate your personal ethics.</li> <li>Evaluate your personal ethics against acceptable workplace ethics.</li> <li>Build a job search network.</li> <li>Find job leads.</li> <li>Write a resume.</li> <li>Create a job portfolio.</li> </ul>
100302-1603 100302-1604 100302-1605 100302-1606 100302-1607	job. Evaluate your personal ethics.  Evaluate your personal ethics against acceptable workplace ethics. Build a job search network. Find job leads. Write a resume. Create a job portfolio. Complete a job application.
100302-1603 100302-1604 100302-1605 100302-1606 100302-1607 100302-1608	<ul> <li>job.</li> <li>Evaluate your personal ethics.</li> <li>Evaluate your personal ethics against acceptable workplace ethics.</li> <li>Build a job search network.</li> <li>Find job leads.</li> <li>Write a resume.</li> <li>Create a job portfolio.</li> <li>Complete a job application.</li> <li>Write a business letter and memo.</li> </ul>
100302-1603 100302-1604 100302-1605 100302-1606 100302-1607 100302-1608 100302-1609	job. Evaluate your personal ethics.  Evaluate your personal ethics against acceptable workplace ethics. Build a job search network. Find job leads. Write a resume. Create a job portfolio. Complete a job application.